

# Circuit breaker

Patent number: GB2303980  
Publication date: 1997-03-05  
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Classification:  
- International: H02H3/10; H02H3/347  
- european: H02H3/10B  
Application number: GB19950015810 19950802  
Priority number(s): GB19950015810 19950802

## Abstract of GB2303980

A circuit breaker 10 for use between an AC power source and a load, which comprises switches SW1-SW4 to be connected between the power source and load, a fault detection circuit for detecting a fault, and a control circuit 50, 60, 70 for responding to the fault detection circuit detecting a fault to operate the switches SW1-SW4 in order to disconnect the load from the power source. The fault detection circuit comprises at least first 20 and second 30,40 transformers. The first transformer has at least two balanced primary windings and a secondary winding, and the second transformer has at least two unbalanced primary windings and a secondary winding. The corresponding primary windings of the first and second transformers are connected in series for connection between the power source and load to permit the flow of corresponding incoming and outgoing load currents. The output of the secondary winding of the first transformer represents an imbalance between the incoming and outgoing load currents for the detection of an earth fault. The output of the secondary winding of the second transformer represents an imbalance between the incoming and outgoing load currents which has a magnitude proportional to that of the incoming/outgoing load current for the detection of an over-current fault.

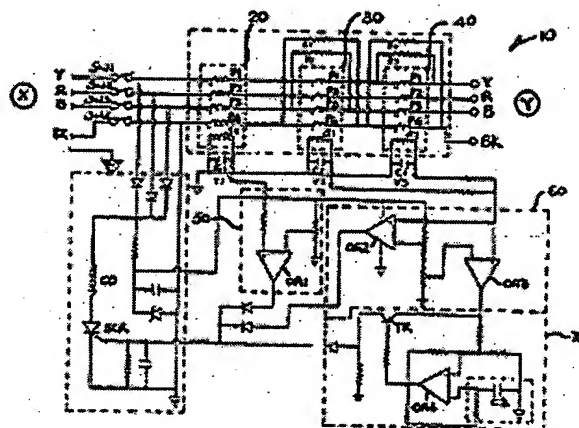


FIG.1

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